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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09.944,478	08/31/2001	Tyler A. Lowrey	INTO-0006-US (P12499) 1547		
75	90 04 09 2003				
Timothy N. Trop TROP, PRRUNER & HU, P.C. STE 100			EXAMINER QUACH, TUAN N		
110051014,111			2814		
			DATE MAILED: 04/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application I	Vo.	Applicant(s)	•		
		09/944,478		LOWREY, TYLER A.			
	Office Action Summary	Examiner		Art Unit			
		Tuan Quach		2814			
Period fo	• •						
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, y within the statutory will apply and will ex, cause the applicat	however, may a reply be ti y minimum of thirty (30) da pire SIX (6) MONTHS fron ion to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication ED (35 U.S.C. § 133).	n,		
1)[Responsive to communication(s) filed on 28 A	<u> August 2002</u> .					
2a) 🗌	This action is FINAL . 2b)⊠ Th	is action is no	n-final.				
3)⊡ Dispositi	Since this application is in condition for allowa closed in accordance with the practice under ion of Claims				is		
· _	Claim(s) <u>1-30</u> is/are pending in the application	1					
,	4a) Of the above claim(s) <u>11-30</u> is/are withdraw		deration				
	Claim(s) is/are allowed.	VII 110111 0011310	retation.				
	Claim(s) <u>1-10</u> is/are rejected.						
·							
	Claim(s) is/are objected to.	r alastian rasu	iromont				
•	Claim(s) are subject to restriction and/o ion Papers	ir election requ	memem.				
	The specification is objected to by the Examine	ir					
	The drawing(s) filed on is/are: a)☐ accept		iected to by the Exa	aminer			
. •,	Applicant may not request that any objection to the						
11) 🗆 :	The proposed drawing correction filed on						
,_	If approved, corrected drawings are required in re	_ , ,,		•			
12)	The oath or declaration is objected to by the Ex						
Priority (under 35 U.S.C. §§ 119 and 120						
	Acknowledgment is made of a claim for foreign	n priority unde	r 35 U.S.C. § 119(a)-(d) or (f).			
,	☐ All b)☐ Some * c)☐ None of:	, ,	,				
,	1. Certified copies of the priority document	s have been r	eceived.				
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prio application from the International Bu	rity document ireau (PCT Ru	s have been receiv ule 17.2(a)).	ved in this National Stage			
	See the attached detailed Office action for a list		•				
14) L	Acknowledgment is made of a claim for domesti	ic priority unde	er 35 U.S.C. § 119	(e) (to a provisional applicat	tion).		
	i) \square The translation of the foreign language pro Acknowledgment is made of a claim for domest						
Attachmen	t(s)						
2) Notic	ce of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	- /		ry (PTO-413) Paper No(s) I Patent Application (PTO-152)			

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Art Unit: 2814

DETAILED ACTION

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 last two lines, the formation of the phase change material is vague with regard to the electrical connection as the positional relationship between the two cannot be determined from the claim. The invention requires the phase change material to be formed on the electrical connection as shown in Figs. 1 and 2I.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ovshinky et al. (Ovshinsky).

Ovshinsky teaches forming region 24, forming insulating layer 20, forming layers 32/34, forming the memory layer 36 which corresponds to the phase change material. See column 11 line 34 to column 13 line 30. The layer 24 functions as a contact would have been apparent as shown in column 12 line 1-3, or alternatively, it would have been obvious to one skilled in the art that the region such base contact would have been obvious and apparent over the corresponding region 24 and electrical connection thereto including the phase change material as shown in Ovshinsky. The cup shaped connection would have been apparent or otherwise obvious as shown in Fig. 1.

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Claims 6-10 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and incorporating a recitation of the positional relationship discussed above regarding claim 1. The filling of the cup shaped electrical connection with an insulator in the context of claims 6-10 is not shown in the prior art.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Harshfield, Dennison, Gonzalez et al., Zahorik, and Wolstentholme et al. are cited of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Quach whose telephone number is 703-308-1096. The examiner can normally be reached on M - F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Wael Fahmy can be reached on (703) 308-4918. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9318 (Before Final) and (703) 872-9319 (After Final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

-th